Claims

1. A method of remotely obtaining metadata from a building management system at a building site, the building management system including a plurality of individual components operably coupled with an intelligent gateway disposed at the building site that is itself operably coupled to a remote server via a network, the method comprising: receiving, from the remote server at the intelligent gateway, a request for the intelligent gateway to obtain metadata from the building management system; in response to receiving the request, transmitting, at the intelligent gateway, a metadata request to a individual component of the plurality of individual components through a device driver corresponding to the individual component, wherein the device driver facilitates communication with the individual component; in response to transmitting the metadata request to the individual component of the building management system, receiving, at the intelligent gateway, metadata from the individual component of the building management system; translating the received metadata into a predetermined format based on communication protocol associated with the individual component, wherein translating further comprises tagging the received metadata using a tag dictionary with at least a data type, and a unit of measurement, wherein the predetermined format is defined to facilitate building and/or updating a cloud-based model that is representative of the building management system and used in subsequently controlling, diagnosing and/or otherwise operating the building management system; and the intelligent gateway communicating the translated metadata to the remote server.

2. The method of claim 1, wherein the metadata request is generated by the remote server.

3. The method of claim 1, wherein the remote server is configured to use the translated metadata to generate the cloud-based model that is representative of the building management system.

4. The method of claim 3, wherein the remote server is configured to periodically update the cloud-based model that is representative of the building management system.

5. The method of claim 1, wherein the intelligent gateway is configured to store the received metadata in a database hosted by the intelligent gateway prior to translating the metadata and communicating the translated metadata to the remote server.

6. The method of claim 1, wherein the intelligent gateway is configured to communicate directly with at least some of the individual components of the building management system.

7. The method of claim 1, wherein the intelligent gateway is configured to communicate with at least some of the individual components of the building management system by way of a legacy gateway device that is operably coupled between the intelligent gateway and the at least some of the individual components of the building management system.

8. The method of claim 1, wherein the remote server provides an administrative portal that allows a user to initiate the request for metadata.

9. The method of claim 4, wherein the remote server provides a model synchronization module that enables the remote server to periodically update the cloud-based model that is representative of the building management system.

10. The method of claim 1, wherein the remote server provides a remote configuration module that enables the remote server to configure at least some of the individual components of the building management system with configuration settings that configure the corresponding individual components for subsequent use, and to download the configuration settings to the corresponding individual components of the building management system via the intelligent gateway.

11. The method of claim 1, further comprising: installing the intelligent gateway at the building site; operably connecting the intelligent gateway to the building management system; operably connecting the intelligent gateway to the Internet; and commissioning the building management system from the remote server.

12. The method of claim 1, wherein the intelligent gateway translating the received metadata comprises adding relationships to the received metadata, wherein the relationship corresponds to a hierarchal representation of the individual components within the building management system.

13. A method of initially commissioning a building management system at a building site from a remote server, the building management system operably coupled with an intelligent gateway disposed at the building site, the intelligent gateway operably coupled with a network, the method comprising: receiving, from the remote server at the intelligent gateway, a request for the intelligent gateway to obtain metadata from the building management system; in response to receiving the request, interrogating, by the intelligent gateway, a components of the building management system to obtain metadata through a device driver associated with the component, wherein the metadata includes information indicative of whether the component is currently part of the building management system; translating the received metadata into a predetermined format based on communication protocol associated with the component, wherein translating further comprises tagging the received metadata using a tag dictionary with at least a data type, and a unit of measurement; communicating the translated metadata to the remote server; and receiving configuration settings from the remote server for initially commissioning the building management system, wherein the configuration settings are based at least in part on the translated metadata communicated to the remote server.

14. The method of claim 13, wherein the configuration settings received by the intelligent gateway includes operational instructions for the intelligent gateway that control operation of the intelligent gateway during subsequent operation.

15. The method of claim 13, wherein the configuration settings received by the intelligent gateway includes operational instructions for one or more local controllers

that control operation of the component of the building management system during subsequent operation.

16. A non-transitory, computer-readable storage medium having stored thereon executable instructions that, when executed by one or more processors of an intelligent gateway, cause the one or more processors of the intelligent gateway to: receive a request from a remote server—for the intelligent gateway to obtain metadata from the building management system; transmit metadata request to an individual component of the building management system through a device driver corresponding to the individual component, wherein the metadata includes information indicative of whether the individual component is currently part of the building management system; receive the requested metadata from the individual components of the building management system; translate the received metadata into a predetermined format based on communication protocol associated with the component, wherein translating further comprises tagging the received metadata using a tag dictionary with at least a data type, and a unit of measurement communicate the translated metadata to the remote server; and receive configuration settings from the remote server for configuring the building management system, wherein the configuration settings are based at least in part on the representation of the metadata communicated to the remote server.

17. The non-transitory, computer-readable storage medium of claim 16, wherein execution of the executable instructions cause the intelligent gateway to communicate directly with the individual component of the building management system.

18. The non-transitory, computer-readable storage medium of claim 16, wherein execution of the executable instructions cause the intelligent gateway to communicate with at least some of the individual components of the building management system through a legacy gateway device that is operably coupled between the intelligent gateway and the individual component of the building management system.